

CLAIMS

1. A portable measuring instrument, particularly for use in sport, comprising a housing (6) provided with a sensor (34), a receiver (27), a transmitter and a processing unit (26), characterized in that the housing is adapted to transmit signals coming from the housing's sensor (34) to a remote display intended to be worn by a user, and to function as a relay by receiving signals coming from a remote detector intended to be worn by a user and retransmitting these signals to the remote display.

2. The instrument as claimed in claim 1, characterized in that the housing is provided with an accelerometer.

3. The instrument as claimed in claim 2, characterized in that the housing comprises processing means connected to the accelerometer, these means being adapted to form a pedometer.

4. The instrument as claimed in any one of the preceding claims, characterized in that the housing comprises a display screen (35).

5. The instrument as claimed in claims 3 and 4, characterized in that the housing is adapted to display data associated with the pedometer directly on the display screen or to transmit this data to a remote display.

6. The instrument as claimed in one of the preceding claims, characterized in that the processing unit (26) is able to provide a secondary signal encoding a measurement signal and a secondary identification code.

7. The instrument as claimed in any one of the preceding claims, characterized in that it comprises a remote display (7) comprising a display screen (7a) and a secondary receiver (30).

8. The instrument as claimed in claim 7, characterized in that the display (7) comprises a secondary processing stage (32) able to identify a

secondary signal according to a secondary identification code inserted in a frame of the secondary signal.

5 9. The instrument as claimed in any one of the preceding claims, characterized in that it comprises a remote detector (20) comprising a sensor (21) and a primary transmitter (23).

10 10. The instrument as claimed in claim 9, characterized in that the detector (20) comprises a processing stage (22) able to provide a primary signal encoding a measurement signal of the sensor and a primary identification code.

15 11. The instrument as claimed in any one of the preceding claims, characterized in that the housing (6) is provided with detachable fixing components (17, 18).

20 12. The instrument as claimed in one of claims 7 or 8, characterized in that the display is provided with means of fixing directly on the user and/or on a part of the user's equipment, such as the frame of a cycle.